

Appendix A: Scoping Documents

Notice of Scoping Letter



Department of Energy

Golden Field Office
1617 Cole Boulevard
Golden, Colorado 80401-3393

April 27, 2010

TO: Distribution List

SUBJECT: Notice of Scoping – Northwest National Marine Renewable Energy Center/Oregon State University
Mobile Ocean Energy Test Berth Project
Newport, Oregon

The U.S. Department of Energy (DOE) is proposing to provide funding to the Northwest National Marine Renewable Energy Center (NNMREC)/Oregon State University (OSU), in Corvallis, Oregon for their proposed project to construct and operate a wave energy test facility, known as the "Mobile Ocean Test Berth" (MOTB). Pursuant to the requirements of the National Environmental Policy Act (NEPA), the Council on Environmental Quality regulations for implementing the procedural provisions of NEPA (40 CFR Parts 1500-1508), and DOE's implementing procedures for compliance with NEPA (10 CFR Part 1021), DOE is preparing a draft Environmental Assessment (EA) to:

- Identify any adverse environmental effects that cannot be avoided should this proposed action be implemented.
- Evaluate viable alternatives to the proposed action, including a no action alternative.
- Describe the relationship between local short-term uses of the environment and the maintenance and enhancement of long-term productivity.
- Characterize any irreversible and irretrievable commitments of resources that would be involved should this proposed action be implemented.

Project Location and Proposed Action

NNMREC/OSU has proposed to construct, deploy, and operate up to two MOTBs off the Oregon coast, approximately 2.0 miles off the coast of the city of Newport, Oregon. Each MOTB would be connected to a Wave Energy Conversion (WEC) device under test. An Underwater Sub-station Pod (USP) may also be included in the overall design and would serve to connect the



MOTB/WEC Devices. The MOTBs, WEC devices, and USP are referred to as the “proposed project.”

The MOTBs would be operated within a one square-mile section of the Project Area shown in Figure 1. The Project Area would consist of a six square mile area, measuring 2 miles from east to west and 3 miles from north to south¹. The MOTBs would serve as an integrated, standardized test facility for U.S. and international developers of wave energy, provide the critical infrastructure required to test and validate WEC devices, and allow developers to demonstrate the commercial viability of their technology. The MOTBs would provide WEC device developers with a resource to perform ocean testing of subscale and full-scale devices. The MOTBs would not be connected to the electrical grid on land, but instead would dissipate the energy generated by the testing of WEC devices through resistor load banks.

Each MOTB consists of a Power Analysis/Data Acquisition (PADA) device and an Adjustable Load Bank (ALB) contained on a standalone vessel on the order of 30- to 40-foot long. The MOTB hull design is based on the evaluation and analysis of ABS-approved materials and shapes. The design uses a composite hull with a boat shape, similar to the proven Navy Oceanographic Meteorological Automatic Device (NOMAD) style buoy used in the United States and Canada. The mooring system for each MOTB would consist of up to three anchors. The anchors would be either standard Danforth anchors or dead-weight anchors.

The PADA measures the WEC device’s output voltage and current with respect to time at high sampling rates. The ALB dissipates the power generated from the WEC device. The NEPA analysis will also consider the use of an USP which would enable the power take-off cables from multiple test berth modules or WEC devices to be connected, and would enable the power to be delivered back to shore via a single subsea cable in future applications. The USP would either sit on the ocean bottom or float on the surface, depending on design specifics.

A variety of WEC devices could be tested with the MOTBs, but designs currently contemplated for testing fall into the general category of “point absorbers” or “oscillating water column” devices that can operate in the range of 150 feet of water.” Each WEC device to be tested would include the device itself and a mooring system consisting of up to three anchors of variable configuration.

¹ GPS coordinates for the corners of the Project area: NW = 44.697764, 124.148319; NE = 44.699034, 124.108056; SW = 44.65403, 124.145677; SE = 44.655299, 124.105439.

To support the MOTBs, associated monitoring equipment would also be deployed. This equipment may include Acoustic Wave and Current Profilers (AWAC), Acoustic Doppler Current Profilers (ADCP), Waveriders, acoustic hydrophones, plankton collection plates, water quality monitoring devices (dissolved oxygen, temperature, salinity, etc.), fish tag receivers, electromagnetic frequency monitoring equipment, etc.

The MOTBs and future Underwater Sub-station Pod would be designed for a maximum uninterrupted service life of 12 months.

Development of a Reasonable Range of Alternatives

DOE is required to consider a reasonable range of alternatives to the proposed action during the environmental review. The definition of alternatives is governed by the “rule of reason.” An EA must consider a reasonable range of options that could accomplish the agency’s purpose and need and reduce environmental effects.

The proposed action consists of DOE’s decision to provide funding for the proposed project. NNMREC/OSU would reduce environmental effects through “applicant committed measures” incorporated into the proposed action. The no action alternative will also be addressed.

Probable Environmental Effects/Issues Scoped for the Environmental Analysis (EA)

The EA will address direct, indirect, and cumulative impacts of the proposed action, as well as the no action alternative. The EA will describe the potentially affected environment and the impacts that may result to:

- Air Quality/Meteorology
- Biological Resources
 - Benthic Habitat
 - Marine Vegetation and Algae
 - Plankton
 - Invertebrates
 - Fish and Reptiles
 - Marine Mammals
 - Birds
 - State Special-Status Aquatic Species
 - Threatened and Endangered Species

- Essential Fish Habitat.
- Water Resources
 - Water Quality
 - Wave Characteristics
 - Wind and Current
- Aesthetics
- Cultural Resources
- Energy
- Marine Navigation
- Noise and Vibration
- Socioeconomics
- Recreational Resources

Public Scoping

This letter will be available to all interested state, local, and federal agencies to supply input on issues to be discussed in the EA. Agencies should identify the issues, within their statutory responsibilities, that should be considered in the EA. The general public and Native American Tribes are also invited to submit comments on the scope of the EA. As part of the process related to determining the scope of issues related to the Proposed Action, we request your comments or other information by May 28th, 2010. Please send your comments to:

**Department of Energy
Golden Field Office
c/o Laura Margason
1617 Cole Boulevard
Golden, CO 80401**

Or via email to: laura.margason@go.doe.gov

Public Scoping Meeting

DOE also invites all interested state, local, and federal agencies, Native American Tribes, and the general public to participate in a public scoping meeting to learn more about the project and provide comments. This meeting will be held in the **Hennings Auditorium at Hatfield Marine Science Center from 6:30pm - 8:30pm on Wednesday, May 5th at 2030 SE Marine Science Dr. Newport, OR 97365.**

This letter and the draft EA, when available, will be posted to the Golden Field Office electronic reading room for further reference:

http://www.eere.energy.gov/golden/reading_room.aspx.

Thank you for your participation in the NEPA process.

Sincerely,

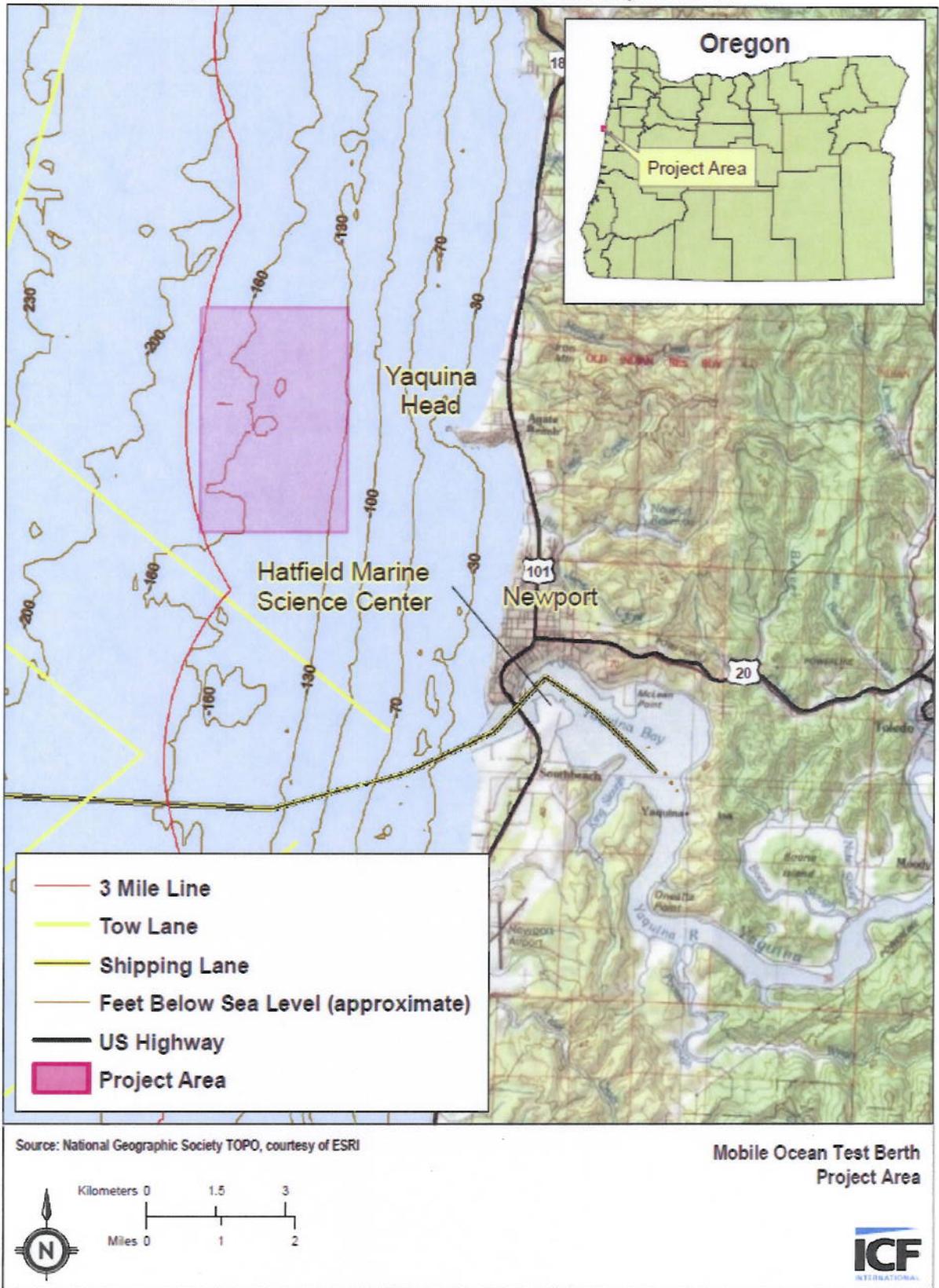
A handwritten signature in blue ink, appearing to read 'S. Blazek', with a large, sweeping flourish extending to the right.

Steve Blazek
NEPA Compliance Officer

Attachments:

Figure 1: Mobile Ocean Test Berth Project Area

Figure 1 – Mobile Ocean Test Berth Project Area



Public Notices



NOTICE OF SCOPING

The U.S. Department of Energy (DOE) is requesting public input on the scope of environmental issues and alternatives to be addressed in the:

**Environmental Assessment
Mobile Ocean Energy Test Berth Project
Northwest National Marine Renewable Energy Center/OSU
Newport, Oregon**

Northwest National Marine Renewable Energy Center at Oregon State University is proposing to use funding from DOE to construct and operate a wave energy test facility, known as the "Mobile Ocean Test Berth". An Environmental Assessment (EA) will be prepared by DOE pursuant to the requirements of the National Environmental Policy Act (NEPA). The notice of scoping, description of the proposed project is available for review at the DOE Electronic Public Reading Room at

http://www.eere.energy.gov/golden/Reading_Room.aspx.

A public scoping meeting will be held on May 5, 2010 at Hennings Auditorium at Hatfield Marine Science Center from 6:30pm - 8:30pm located at 2030 SE Marine Science Dr Newport, OR 97365.

Public comments on the NEPA process, proposed action and alternatives, and environmental issues will be accepted until **May 28, 2010**. Please send comments to Laura Margason, Department of Energy's Golden Field Office, 1617 Cole Blvd, Golden, CO 80401 or by email to laura.margason@go.doe.gov.

PUBLIC NOTICES

CLASSIFICATION 8

Public Notices 8

METRO
METRO COUNCIL
WORK SESSION

1:00 pm, Tues. May 4, 2010

METRO COUNCIL MEETING
5:00 pm, Thurs. May 6, 2010

Meetings are in the council chamber at Metro Regional Center, 600 NE Grand Ave., Portland, unless otherwise noted. Please view agendas online at: www.oregonmetro.gov.

You're invited at 6 p.m. the first Wed. of each month to the Metro Committee for Citizen Involvement. Information: 503-797-1539

CLASSIFIED ADS
GET RESULTS! 503-221-8000

Public Notices 8

REQUEST FOR COMMENTS
A 120-foot FCC licensed wireless communication tower is to be constructed at 2660 NW Division St., Gresham, Oregon. The FCC is seeking public comment on the proposed project as part of the review process by the Oregon State Historic Preservation Office. Please respond within 30 days of this publication to: Adept Engineering Inc., 10725 SW Barbur Blvd., Suite 350, Portland, OR 97219 Attn: Bella Vista

PUBLIC STORAGE AUCTION
PORTLAND SELF STORAGE
5803 SE 122nd St, 503-761-2843
May 7, 2010 at 11:30am
#4072 Mary Couch

★
**THINKING OF SELLING
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The Oregonian 'Classifieds'

In the Portland area
call 503-221-8000.
Toll free in Oregon
1-800-221-4488
In Vancouver call 896-5710

NOTICE OF SCOPING

The U.S. Department of Energy (DOE) is requesting public input on the scope of environmental issues and alternatives to be addressed in the:

**Environmental Assessment Mobile Ocean
Energy Test Berth Project, Northwest National
Marine Renewable Energy Center/OSU Newport, Oregon.**

The Northwest National Marine Renewable Energy Center at Oregon State University is proposing to use funding from DOE to construct and operate a wave energy test facility, known as the "Mobile Ocean Test Berth". An Environmental Assessment (EA) will be prepared by DOE pursuant to the requirements of the National Environmental Policy Act (NEPA). The notice of scoping, description of the proposed project is available for review at the DOE Electronic Public Reading Room at: http://www.eere.energy.gov/golden/Reading_Room.aspx.

A public scoping meeting will be held on May 5, 2010 at Hennings Auditorium at Hatfield Marine Science Center from 6:30pm - 8:30pm located at 2030 SE Marine Science Dr Newport, OR 97365.

The purpose of the meeting is to: 1) Inform the public about the project, 2) provide an overview of the DOE NEPA process, and 3) obtain feedback on what impacts should be considered by the NEPA process for the project.

Public comments on the NEPA process, proposed action and alternatives, and environmental issues will be accepted until May 28, 2010. Please send comments to:

Laura Margason, Department of Energy's Golden Field Office,
1617 Cole Blvd, Golden, CO 80401
or by email to laura.margason@go.doe.gov.

PUBLIC NOTICES

LEGAL DEADLINES:

WEDNESDAY EDITION: 5:00pm
Thursday
FRIDAY EDITION: 12:00pm
Tuesday

NOTICE

Siletz Fire Protection District is selling the following surplus vehicles by sealed bid with no minimum bid required. Bids must be received by Friday, May 7, 2010 to the Siletz Fire Protection District, P.O. Box 380, Siletz, OR 97380, or delivered to the fire station in Siletz by 4:00 pm that day. The bid must include your name, address, phone number and what truck you are bidding on. Bids must be in a sealed envelope with which vehicle the bid is for on the outside of the envelope. Separate bids must be made for each vehicle. Payment must be made in full with possession of vehicle. If the highest bidder does not claim the vehicle within 10 days (May 20, 2010), then the second highest bidder will be contacted, and on down until the vehicle is sold. Bids will be opened at the Fire Department Board of Directors meeting on Monday, May 10, 2010 at 7:30 pm. All bidders are welcome to attend. 1994 Chevrolet Suburban 1500: It does not run, has good tires and new brakes, sold "AS IS." 1981 Ford 750 diesel truck with 1800 gallon steel water tank plumbed for pump. Pump is NOT included, new batteries, sold "AS IS." 1979 Ford C8000 diesel fire truck: Truck runs, pump does not work. 750 gallon steel water tank, tires have less than 500 miles on them, new batteries, sold "AS IS." The Siletz Fire Protection District reserves the right to reject any and all bids. A-28, 30, M-5, 7 (95-07)

NOTICE OF SCOPING

The U.S. Department of Energy (DOE) is requesting public input on the scope of environmental issues and alternatives to be addressed in the Environmental Assessment Mobile Ocean Energy Test Berth Project, Northwest National Marine Renewable Energy Center/OSU Newport, Oregon. The Northwest National Marine Renewable Energy Center at Oregon State University is proposing to use funding from DOE to

construct and operate a wave energy test facility, known as the "Mobile Ocean Test Berth". An Environmental Assessment (EA) will be prepared by DOE pursuant to the requirements of the National Environmental Policy Act (NEPA). The notice of scoping, description of the proposed project is available for review at the DOE Electronic Public Reading Room at: www.eere.energy.gov/golden/Reading_Room.aspx. A public scoping meeting will be held on May 5, 2010 at Hennings Auditorium at Hatfield Marine Science Center from 6:30pm - 8:30pm located at 2030 SE Marine Science Dr Newport, OR 97365. The purpose of the meeting is to: 1) inform the public about the project, 2) provide an overview of the DOE NEPA process, and 3) obtain feedback on what impacts should be considered by the NEPA process for the project. Public comments on the NEPA process, proposed action and alternatives, and environmental issues will be accepted until May 28, 2010. Please send comments to Laura Margason, Department of Energy's Golden Field Office, 1617 Cole Blvd, Golden, CO 80401 or by email to laura.margason@go.doe.gov. A-30, M-5 (17-05)

NOTICE OF BUDGET COMMITTEE MEETING

A public meeting of the Budget Committee of the Linn Benton Lincoln ESD, Linn County, State of Oregon, to discuss the fiscal year July 1, 2010 to June 30, 2011, will be held at 905 4th Avenue SE Albany, Oregon. The meeting will take place on the 12th day of May, 2010 at 6:00 P.M. The purpose of the meeting is to receive the budget message and to receive comment from the public on the budget. A copy of the budget document may be inspected or obtained on or after May 12, 2010 at 905 4th Avenue SE, Albany, Oregon 97321, between the hours of 8:00 A.M. and 5:00 P.M. This is a public meeting where deliberation of the budget committee will take place. Any person may appear at the meeting and discuss the proposed programs with the Budget Committee. A-16, M-5 (65-05)

CITY OF TOLEDO NOTICE OF BUDGET COMMITTEE MEETING

A public meeting of the Budget Committee of the

City of Toledo, Lincoln County, State of Oregon, to discuss the budget for the fiscal year July 1, 2010, to June 30, 2011, including the expenditure of State revenue sharing funds, will be held at Toledo City Hall, Council Chambers, 206 N. Main Street. The meeting will take place on Monday, May 17h, 2010, at 5:30 p.m. The purpose of the meeting is to receive the budget message and to receive comment from the public on the budget. A copy of the budget document may be inspected or obtained on or after May 11th at City Hall, between the hours of 8 a.m. and 5 p.m. This is a public meeting where deliberation of the Budget Committee will take place. Any person may appear at the meeting and discuss the proposed programs with the Budget Committee. The Toledo City Hall Council Chambers is handicapped accessible. Please contact the City Recorder if you will need other assistance. /s/ Michelle Amberg, Budget Officer. PUBLISH: NEWS-TIMES, April 23rd & May 5th, 2010 (93-05)

TRUSTEE'S NOTICE OF SALE

Loan No.: 1117010556
T.S. No.: 7100378
Reference is made to that certain deed made by Jeffery D. McNelly and Diana K. Thomas, not as tenants in common, but with the Right of Survivorship as Grantor to Pacific Northwest Company of Oregon, Inc., as Trustee, in favor of Mortgage Electronic Registration Systems, Inc. as Beneficiary, dated 12/13/2006, recorded 12/19/2006, in the official records of Lincoln County, Oregon in book/reel/volume No. xx at page No. xx, fee/instrument/microfilm/reception No. 200619173 covering the following described real property situated in said County and State, to wit: Real property in the County of Lincoln, State of Oregon, described as follows: That portion of the Northeast 1/4 of the Northwest 1/4 of Section 33, Township 6 South, Range 10 West, Willamette Meridian, in Lincoln County, Oregon, described as follows: Beginning 460 feet West of the Southeast corner of the Northeast quarter of the Northwest quarter in Section 33 above described; thence North 660 feet; thence West 330 feet; thence South 660 feet; thence East 330 feet to the point of

Scoping Responses



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Oregon Fish and Wildlife Office
2600 SE 98th Avenue, Suite 100
Portland, Oregon 97266
Phone: (503) 231-6179 FAX: (503) 231-6195

Reply To: 7971.0081
File Name: OSU Wave Energy Test Project
TAILS: 13420-2010-CPA-0112
TS Number: 10-940
DOC Type: Comment

MAY 27 2010

Laura Margason
Department of Energy
Golden Field Office
1607 Cole Boulevard
Golden, CO 80401

Subject: Oregon Fish and Wildlife Office comments on Notice of Scoping for the Northwest National Marine Renewable Energy/Oregon State University Mobile Ocean Energy Test Berth Project

The Fish and Wildlife Service's Oregon Fish and Wildlife Office (OFWO) has reviewed the Department of Energy's (DOE) April 27, 2010 "Notice of Scoping for the Northwest National Marine Renewable Energy/Oregon State University Mobile Ocean Energy Test Berth Project" regarding the proposal to provide funding to the Northwest National Marine Renewable Energy (NNMREC)/Oregon State University (OSU) in Corvallis, Oregon for their proposed project to operate a wave energy test facility, known as the "Mobile Ocean Energy Test Berth" (MOTB).

We submit the following comments and recommendations under the authority of the National Environmental Policy Act (42 U.S.C. § 4321 *et seq.*), the Migratory Bird Treaty Act, as amended (MBTA; 16 U.S.C. § 703), the Endangered Species Act of 1973, as amended (ESA; 16 U.S.C. § 1531 *et seq.*), the Fish and Wildlife Coordination Act (48 Stat. 401), as amended (16 U.S.C. § 661 *et seq.*), and the Federal Power Act (16 U.S.C. § 791a, *et seq.*).

SPECIFIC COMMENTS

Project Description

NNMREC/OSU has proposed to construct, deploy and operate up to two MOTBs, approximately 2.0 miles off of the coast near the city of Newport, OR. Each MOTB consists of a Power Analysis/Data Acquisition device and an Adjustable Load Bank contained on a stand alone vessel approximately 30 to 40 feet long, along with associated monitoring equipment. Each MOTB would be connected to a Wave Energy Conversion (WEC) device under test, and both the MOTB and the WEC would be independently moored to the ocean floor by up to three

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anchors. An underwater substation pod (USP) may also be included in the project and would connect multiple MOTB/WEC sets with each other. This pod would either sit on the ocean bottom or float on the surface, depending on design specifics. A variety of WEC devices could be tested with the MOTBs. The MOTBs and USP would be designed for a maximum uninterrupted service life of 12 months.

Fish and Wildlife Resources

As part of the environmental analysis required for this process, we encourage the DOE to consider the effects of this project on several fish and wildlife resources of special interest to the OFWO. Species to consider include (but are not limited to) the ESA listed marbled murrelet (*Brachyramphys marmoratus*) and short-tailed albatross (*Phoebastria (=Diomedea) albatrus*), as well as the recently delisted brown pelican (*Pelicanus occidentalis*) and northern bald eagle (*Haliaeetus leucocephalus*). Potential adverse impacts and concerns from development and operation of wave energy test facilities include, but are not limited to, wildlife entrapment or direct mortality, and disruption or impairment of essential behavior patterns.

Recommendations

1. Marbled murrelet, a threatened species, nest in older forests near the ocean off the California, Oregon, and Washington coasts. Murrelets are currently in decline. Murrelets forage just offshore in the water column, and depend on these foraging sites year round. Much is still not known about their feeding behavior although it is thought they forage in exclusive areas in proximity to their nest sites during the nesting season (www.reo.gov/monitoring/10yr-report/marbled-murrelet/final-report.html). Wave energy MOTB construction and operation needs to insure that foraging areas for this species are not disrupted and direct mortality is avoided.

Note: If the DOE, based on a Biological Assessment or evaluation, determines that the marbled murrelet or any other threatened and endangered species and/or critical habitat may be affected by activities authorized by the requested preliminary permit, we recommend that the DOE consult with the OFWO following the requirements of 50 CFR 402 which implements the ESA.

2. The Fish and Wildlife Service administers the rocks, reefs and islands along the Oregon coast, including those in Lincoln County, as part of Oregon Islands National Wildlife Refuges and Wilderness. Project design, construction and operation should incorporate measures that prevent direct impacts to the Refuge and indirect impacts (disturbance) to the seabird and pinniped populations using the Refuge. The most effective avoidance measure for any project of this type is to maintain maximal distance away from any rocks, reefs, and islands.
3. Oregon's near shore (Territorial Sea) waters serve as a foraging area for migratory seabirds that nest on the Refuge. In addition, these waters also serve as a major migration corridor for millions of seabirds, waterfowl, shorebirds and waterbirds annually. Much of this migration occurs at low altitude, just above the surface of the sea, therefore, wave energy MOTBs design, construction, and operation needs to insure that migration routes

are not disrupted and direct mortality (collision with above water surface project features) is minimized.

4. The gray whale (*Eschrichtius robustus*) is a coastal whale that may also frequent the coastline of Lincoln County. Gray whale pods and individuals may be seen off the Oregon coast at any time. The gray whale feeds in shallow water near shore during summer and fall, migrates in deeper water to the south for breeding and calving during the winter, and migrates north in the spring. Southbound pods pass the Oregon coast from December through early February. Northbound pods pass in late February through early June. Wave energy MOTB design, construction and operation needs to insure that gray whale migration routes and feeding areas are not disrupted.

SUMMARY COMMENTS

While the OFWO is supportive of the testing and development of environmentally-sound, alternative energy technologies, the aforementioned environmental issues should be addressed during the NEPA process to prevent unnecessary delays in this test project. If you have any questions regarding these comments please contact Ann Gray or Doug Young of my staff at 503-231-6179.

Sincerely,



Paul Henson, PhD
for State Supervisor

cc:

Mead, USFWS

Sleeger, DOI

Enright, ODOE

May 28, 2010

Department of Energy
Golden Field Office
C/o Laura Margason
1617 Cole Boulevard
Golden, CO 80401

Re: Comments on Department of Energy's Scoping of the Northwest National Marine Renewable Energy Center/Oregon State University Proposed "Mobile Ocean Test Berth" Wave Energy Test Facility

Dear Ms. Margason,

Pursuant to 18 CFR 5.4(d)(2)(iv), the Oregon Chapters of the Surfrider Foundation (Surfrider) submit these comments on the proposed "Mobile Ocean Test Berth" Wave Energy Test Facility (Mobile Ocean Test Berth or MOTB). Surfrider appreciates the interest of the Department of Energy (DoE) and the Northwest National Marine Renewable Energy Center/Oregon State University (NNMREC/OSU) in substantively addressing potential environmental, recreational, and other impacts of the proposed MOTB. Listed below are Surfrider's comments regarding: 1) the proposed size and location of the MOTB, 2) the MOTB's environmental impacts, such as electromagnetic field generation, marine mammal entanglement, and habitat disturbance, 3) DoE and NNMREC/OSU's recognition of Oregon's coastal recreational community and interests as stakeholders, and 4) its support of incorporating and employing adaptive management and robust in-situ monitoring throughout the process.

Comment One: The Proposed Size and Location of the MOTB and its potential affect on wave dynamics:

The proposed MOTB will be located in the State's territorial waters, within the three nautical mile jurisdictional boundary, bordering the federal jurisdictional waters. The project elements sit directly in the Pacific Ocean, adjacent to an area with a number of high quality surf breaks that attract a large number of year-round recreational uses. The area's characteristics are attributable to the unique coastal topography, prevailing wind direction, currents, and resulting sand accretions. Every effort should be made to anticipate and consider the effects of the MOTB on these characteristics and the environmental factors that create and perpetuate them. Additionally, every effort should be made to preserve the area's value as a coastal recreation destination.

Even very minute alterations in substrate composition and character can have dramatic effects on wave characteristics. The proposed MOTB's impact, even if limited through careful site selection and mitigation, could result in permanent dramatic effects on the site's unique wave character and the recreational resource it

represents. Therefore, Surfrider requests that the particular location, configuration, and substrate characteristics and movement, which contribute to the proposed site's unique characteristics be given due consideration with non-consumptive coastal recreation in mind. Please do not give short shrift to the complex confluence of environmental conditions that make the proposed project site such a unique recreational resource for the region's surfing community.

Surfrider has determined that wave height reduction associated with hydrokinetic energy development and generation correlates with a project's reduced distance from the shoreline. Surfrider requests the project proponents give the myriad aspects making up the site's unique wave character great consideration, and study the proposed projects likely effects on wave quality. Moreover, Surfrider requests that all available measures be implemented to minimize sand substrate disturbance and wave energy attenuation to preserve the area's recreational resource in its current condition and quality.

Comment Two: The MOTB May Impact the Near-Shore Environment Through Electromagnetic Field Generation, Migration Corridor Overlap or Interference, and Substrate and Habitat Disturbance and Disruption:

The MOTB will likely affect the proposed project area's fish, crustacean, marine mammal, and other marine biotic resources through electromagnetic field generation, migration corridor overlap and interference, and habitat disturbance.

Hydrokinetic wave energy generation is known to emit electromagnetic fields (EMFs). Surfrider believes that shark behavioral response to these EMFs, and other wave energy operations, is an important public safety issue. Sharks detect and are adapted to respond to electric fields at low frequencies. They can detect a millivolt (1/1000 of a volt) at distances of up to 100 meters under water. Skate, ray, and shark species with heightened sensitivity to EMF may be located in or near the area affected by the proposed project. The Oregon coast provides habitat for as many as fifteen shark species, many of which commonly occupy near-shore areas. Past studies and anecdotal evidence indicate that aggressive shark species can be expected to be present in the vicinity of the project at various times of the year depending on the species' mating and migration patterns and environmental conditions. For example, Great White Sharks have been documented close to shore off the central Oregon coast. How these sharks may respond to EMF generated by a development like the MOTB is as-yet a largely unanswered question. There is a dearth of clear evidence indicating whether sharks will acclimate to, be attracted by, or be repulsed by EMF. While magnetic frequency ranges of wave and tidal energy technology may be outside the range of shark sensitivity, more research is required to assess behavioral impacts of EMFs on sharks and potential risks to surfers, swimmers, divers, windsurfers, and other in-the-water coastal recreationalists. Thus, DoE and NNMREC/OSU should consider generation of abnormal EMFs prior to implementation of the MOTB.

Also, as many as eleven cetacean species are known to navigate by echolocation in, through, or near the area affected by the proposed project. Of these species, gray whales and harbor porpoises are most likely to be found in the closest proximity to the project area. In addition to considering the effects of EMFs on these species, DoE and NNMREC/OSU should consider risks posed to whale migration from entanglement and/or collision into the MOTB mooring and transmission infrastructure.

Surfrider requests that DoE and NNMREC/OSU consider and incorporate all relevant studies of both EMF and entanglement risks to sharks, whales and other species, preferably from comparable study areas, into the MOTB development process. This should include assessments of the impacts posed by comparably moored projects beyond hydrokinetic developments.

Similarly, DoE and NNMREC/OSU should consider the effect of the MOTB's mooring equipment on other benthic species, and the environmental impacts of any proposed measures to keep the MOTB and its infrastructure free of accumulated biotic growth or debris.

Additionally, pre-development assessments should not preclude careful research and monitoring throughout the development and operation lifecycles of the MOTB. The weight of evidence regarding ecological safety is limited with respect to sharks, whales, and other local and migratory marine species. Wave energy is a nascent technology. Using existing limited data sets to speculate on the likelihood of potential impacts over time sets poor precedent for large-scale testing and development of renewable ocean energy. The Hawaii and Cape Wind assessments are helpful but certainly not exhaustive or comprehensive on this topic.

The recent Collaborative Offshore Wind Research into the Environment (COWRIE) reports include more extensive literature reviews and compilations regarding the effects of EMF. COWRIE asserts that a greater understanding of the environmental impact of EMF emissions is urgently required for offshore wind development, owing to the lack of current knowledge. COWRIE has identified a broad set of studies to investigate the potential effects of EMF. Surfrider recommends the project proponents consider and incorporate these studies.

Considering the variety of technologies likely to be used in association with the MOTB, Surfrider recommends that DoE and NNMREC/OSU consider monitoring and further quantification of frequencies and field levels of EMF as a necessary component of any permitting conditions for the proposed project. DoE and NNMREC/OSU should be required to focus research to monitor for attraction and other changes in faunal behavior. Fauna should not be limited to sharks. The NEPA process should give due consideration to impacts on other species similarly likely to be affected by EMF through identification of species of concern and development of a scientifically sound monitoring plan to assess impacts.

Surfrider recommends that the MOTB development and implementation process incorporate regular monitoring of the condition of the permanent infrastructure as well as any turbines, generators, and undersea cable, including ongoing monitoring of all elements for EMF. Such monitoring should include adaptive management mechanisms, such as triggers for corrective actions. Consideration should be given to any and all conditions under which the MOTB or its components could fail. Development conditions should establish contingencies for unexpected results or outcomes with respect to EMF and undersea cable. Careful consideration should be given to the COWRIE studies on EMF in developing monitoring and research programs for the MOTB. Draft monitoring and research plans should be available for public review throughout the process. Similarly, straightforward public access to monitoring results, such as through a project website, should be readily available.

Comment Three: Recognize and Involve Oregon's Coastal Recreation Community and Interests as Stakeholders and Thoroughly Consider Impacts On and To Them:

DoE's May 5th Community Scoping Meeting presentation mentioned DoE and NNMREC/OSU's intent to consider impacts to Oregon's coastal recreational community, as well as Oregon's coastal cultural and socioeconomic resources. Surfrider recommends that DoE and NNMREC/OSU take additional steps to actively involve Oregon's coastal recreational community as stakeholders and partners in the development of the MOTB. DoE and NNMREC/OSU should look to past efforts regarding licensing and permitting of wave energy development off of Coos Bay and Reedsport for resource materials and stakeholder analyses to supplement its own analysis. The Coos Bay Notice of Intent/Pre-Application Document (NOI/PAD) for the FERC Project No. 12749, the Coos Bay Ocean Power Technology (OPT) Wave Park, filed with FERC by the Oregon Wave Energy Partners I, LLC (OWEP) on March 7, 2008 provides an example of such analysis. Specifically, the Coos Bay NOI/PAD mentions the private developer's intent to implement an adaptive management plan for the Coos Bay OPT Wave Park. As with the similar Reedsport project, continued work with previously identified and engaged stakeholders will better facilitate identification of the DoE/NNMREC/OSU MOTB's potential impacts and alternatives.

Surfrider hopes that any forthcoming EA will give sufficiently thorough treatment to surfing and other near-shore water-based non-consumptive recreational pursuits, and adequately consider impacts thereon. Notably, while surfing does commonly occur near headlands, jetties, and the like, it is not uncommon for Oregon's surfers to recreate along open stretches of coastline in the shore break or at offshore breaks. The Yaquina Head area is home to a number of high quality and heavily utilized surf breaks. Surfrider requests that DoE and NNMREC/OSU give great consideration to the region's surfers and other members of the recreational community and their wave dependent and near-shore-based-recreation uses, including, but not limited to surfing, kayaking, boogie-boarding, skim-boarding, stand-up-paddling, surf-skiing, and body surfing. Such consideration should also be supplemented and enhanced by thorough consideration of commercial and

recreational fishing and crabbing, sightseeing, and other land-based recreational uses that may be impacted by a large near-shore development of this sort.

Comment Four: Employ Adaptive Management and Robust Monitoring Through All Phases of the MOTB's Permitting, Development, Installation, Use, and Future Decommissioning:

Finally, the need to employ adaptive management throughout this process cannot be over-emphasized. This is important to ensure that new information is applied to assess needs for modification, mitigation, and/or removal as conditions change and knowledge develops. Other projects being developed on the Oregon Coast may help aid in the understanding of the challenges that may be faced when deploying wave energy devices in Oregon's Territorial Sea. An example of this would be the sinking of the Finevera Buoy off of Yaquina Head in November of 2007. Unfortunately, this buoy wasn't removed from the seafloor until the summer of 2008 because an adequate emergency response plan was not in place at the time of sinking. There is no excuse for a similar event to occur with the MOTB. Similarly, DoE and NNMREC/OSU should consider and incorporate Oregon's ongoing efforts to revise and update its Territorial Sea Plan with regard to ocean-based hydrokinetic energy development and its impacts on other uses of Oregon's Territorial Sea.

Surfrider appreciates your timely consideration of these comments, requests and recommendations. Surfrider eagerly anticipates DoE's response to the foregoing, the forthcoming EA, and continued involvement in the permitting and development of the MOTB.

FW Ocean Wave Energy Test Berth - Newport OR

-----Original Message-----

From: Yvonna Weiland [mailto:wldpt01@yahoo.com]

Sent: Wednesday, May 26, 2010 8:17 PM

To: Margason, Laura

Subject: Ocean Wave Energy Test Berth - Newport, OR

Dear Laura:

I attended the meeting held in Newport in early May. Thank you for the time and effort involved to bring this meeting to our community.

I would ask that careful consideration be made as to the location of the Test Berth. It is my understanding that currently you are looking at a site almost directly off shore from Yaquina Head. As you know, Yaquina Head and its lighthouse is one of the most popular tourist destinations on the central Oregon coast. I am concerned that a Test Berth would interfere with the view of the magnificent horizon from the lighthouse, and might negatively impact the revenue generated by Yaquina Head itself and the local hospitality businesses.

Perhaps a location to the south of the jetty would cause less of an impact to the tourist industry in and around Newport.

Thank you.

Yvonna Weiland

P.S. Please add me to your distribution list.

Scoping Meeting Transcript

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NEPA PUBLIC SCOPING MEETING

Energy

Northwest National Marine Renewable

Installation

Center/Oregon State University's
Mobile Ocean Test Berth Deployment and
Environmental Assessment

At

Hatfield Marine Science Center
South Beach, Oregon

May 5, 2010

6:30 PM

NEPA hrg

19

20

21

22

23

Lee Blackwood

24

Blackwood Court Reporting

25

PO Box 536, Newport, Oregon 97365

2

1

APPEARANCES

2

Mel eah Ashford:

Program Manager

3

Northwest National

Marine

4

Renewable Energy

Center

5

204 Rogers Hall

6

Corvallis, OR

97331-6001

7

8

Laura Margason:

NEPA Specialist

9

U.S. Department of

Energy

10

Golden Field Office

NEPA hrg

11 1617 Col e Boul evard
12 Gol den, CO
80401-3393
13
14 John P. Horst: Publ ic Affai rs
Speci al i st
15 U. S. Department of
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20 Ti m Ramsey: Proj ect Offi cer
21 U. S. Department of
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ICF Internati onal
317 SW Alder Street,
Portl and, OR 97204
Mari ne Fi sheri es
Facul ty
Oregon State
Li ncol n County
29 SE Second Street
Newport, OR 97365

NEPA hrg

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I N D E X

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2 Opening comments by Laura Margason

Page 6

3 NEPA Process Overview by Laura Margason

Page 16

4 DOE Water Power Program Overview by Tim Ramsey

Page 23

5 Proposed Project Overview by Mel eah Ashford

Page 21

6 Comments and Questions from Audience:

7

John Lavrakas

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8

Chuck Pavl i k

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9

Mi ke Donnel l an

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10

Stephen Webster

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11

John Lavrakas

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May 5, 2010 - 6:35 PM

NEPA hrg

2

3 LAURA MARGASON: I think we will get
started here.

4 Welcome, everyone.

5 So I'd like to welcome everyone. This
is a

6 Department of Energy Scoping Meeting for, umm,
the

7 Environmental Assessment that is going to be
conducted for

8 the Northwest National Marine Energy, umm,
Renewable Energy

9 Center, part of OSU. And their project is the
Mobile Ocean

10 Test Berth.

11 I want to introduce myself. My name is
Laura

12 Margason. I'm a NEPA specialist with the
Department of

13 Energy. I'm based at the Golden Field Office
in Golden,

14 Colorado, and I'm going to be conducting a
little bit of a

15 NEPA overview and some explanation about our
process and

16 what we do.

17 I have Kaety Hildenbrand here. She is
here to help

NEPA hrg

18 facilitate, and she is with OSU Sea Grant.

19 My coworker is here today. His name is
Tim Ramsey.

20 He's going to get up and speak a little more
about the

21 program and -- the Water Power Program and its
purpose and

22 its mission.

23 We are going to have a brief question
section right

24 after Tim's discussion where if you have any
questions on

25 the NEPA process or the Water Program's
mission, then that

6

1 will be an opportunity for you to ask a
specific question

2 on the process at that point.

3 And, umm, then afterwards we will have
Mel eah

4 Ashford. She is with the National Marine
Renewable --

5 Northwest National Renewable Energy Center,
just to

6 clarify. It's kind of a mouthful, so we're

NEPA hrg

going to call

7 it NNMREC from here on out. But Meleah will
get up and

8 discuss a little bit more about NNMREC and give
us an

9 overview of the project itself.

10 Did you have anything to add?

11 KAETY HILDENBRAND: And then we will
open it up for

12 public comments. And a few of you did sign in
that you

13 wanted to comment. If you change your mind
during this

14 time, that's fine. We will start with people
on the list,

15 and then we will ask for any more.

16 And there's also public comment forms
inside your

17 envelope. You can either leave it here
tonight, or the

18 address is on there if you want to mail it to
us.

19 LAURA MARGASON: Okay. Thank you,
Kaety.

20 I'm going to dive in now to the NEPA
process

21 overview. This is pretty general, a very quick
overview.

NEPA hrg

22 Some people may know more, some people may know
very little
23 about this process, so I thought I would just
give us a
24 brief overview to let you know how DOE is going
to be
25 conducting this process, and the purpose and
why we are

7

1 here today.

2 So what is NEPA? For those who don't
know, it

3 stands for the National Environmental Policy
Act. It was

4 signed by President Nixon in 1969 and enacted
as federal

5 law effective in early 1970. It applies to
federal

6 agencies only. So sometimes we will get a
state or someone

7 in a private industry asking why, you know, do
they have to

8 do NEPA? And, really, it is no unless this is
a federal

9 action triggering the need for NEPA. It was
one of the

NEPA hrg

the 10 first national charters for the protection of
11 environment.

12 And part of NEPA has a mandate that any
13 environmental information that is collected
during the NEPA
14 process must be shared to any and all public
officials and
15 citizens prior to that NEPA decision being
made.

16 So in order for NEPA to apply, there
has to be some

17 type of federal action. In this case the
Department of

18 Energy is proposing to fund the Northwest
National Marine

19 Renewable Energy Center, NNMREC, for their
proposed

20 project, which is to construct, deploy, and
operate a wave

21 energy test facility which they call the Mobile
Ocean Test

22 Berth. Funding underneath NEPA constitutes a
federal NEPA

23 action, so that is what triggers the need for
NEPA

24 compliance.

25 There are just some basic NEPA
objectives. It is a

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8

1 deci si on-maki ng process. It helps the agency
understand
2 all the envi ronmental consequences that could
come about
3 based on thei r proposed action. Umm, it helps
i mpl ement
4 and for the federal agencies to take actions in
order to
5 protect the shore and enhance the envi ronment
in which the
6 proposed action will take place.

7 NEPA is supposed to focus truly on
si gni fi cant
8 i ssues. This is important because a lot of
peopl e ask, you
9 know, why aren't you looking at this topic?
Why aren't you
10 looking at this topic? It really is a concise
and -- a
11 concise document that wants to focus on
si gni fi cant i ssues
12 and potenti ally si gni fi cant impacts related to
that
13 proposed action, in this case the project.

14 process is there

And it's really there -- The NEPA

15 and for

to promote an agency's decision making process

16 programs.

better planning overall within that agency's

17

UNIDENTIFIED PERSON: A quick question.

18

LAURA MARGASON: Yes.

19

whether

UNIDENTIFIED PERSON: Who determines

20 That's kind

something is potentially significant or not?

21

of subjective.

22 subjective,

LAURA MARGASON: It is. It is very

23 specifically

and, you know, case law has helped dictate

24 with DOE's

what is deemed significant. A lot of times

25 various

decision making process we're going to rely on

9

1 significant.

agencies to help us figure out what is
We are

2 and state

going to work with local and state -- federal

NEPA hrg

3 level agencies in order to help us understand.
You know,
4 we are not biologists, so we are going to work
with them in
5 order to have them provide expertise in what is
signi fi cant
6 and what isn' t.

7 We also have a third party consultant
that has been
8 hired to write our document. They are, you
know, experts
9 in their field of compiling documents,
compiling
10 information, and conducting analyses, but in
the end the
11 decision is still up to the DOE officials. But
there is a
12 lot that goes into making that final decision.
Does that
13 answer your question?

14 UNIDENTIFIED PERSON: Yes, it does.

15 LAURA MARGASON: Okay. So we will make
the
16 determination to do an environmental assessment
for this
17 project. An EA is basically an analysis of a
potential
18 impact that may occur from your actions on the

human and

19 the natural environment. Umm, and I'll often refer to it

20 as a proposed action, but in this specific instance we are

21 talking about the construction and deployment of the -- and

22 the operation of the Mobile Ocean Test Berth.

23 Umm, part of the EA describes the purpose and need

24 for this proposed action, and so that is a chapter in

25 itself; just on why we are doing it, and the purpose of the

10

1 project. And it's going to identify all the potential

2 impact and any mitigation that needs to go along with

3 those. So part of that is identifying any significant

4 impact that is applying mitigation to reduce those to what

5 is generally deemed less than significant.

6 We are going to look at -- Part of the analysis is

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7 also on alternatives, so mitigation often looks
at various
8 alternatives that can be applied; location,
size. It
9 really depends on the project. But we are
going to look at
10 various alternatives, and kind of at the end of
the
11 analysis we go ahead and look at the short-term
and
12 long-term impacts, accumulative impacts to, you
know, the
13 surrounding area, and any commitments of
resources that can
14 result from implementing the proposed action.
15 Most importantly, it really describes
how the
16 public concerns were addressed in the document.
NEPA is a
17 public involved, umm -- It's a process that's
very heavy in
18 public involvement, and so we take all --
consider all
19 comments and concerns, and they are
incorporated into our
20 analyses.
21 So I want to make it clear to everyone,
this is a

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22 scoping meeting. And so I -- In this slide
I've tried to

23 kind of describe what the scoping process
really is about

24 and why we are here today.

25 Umm, public notice in general for NEPA,
you know,

11

1 is to inform and update the public where the
agency and

2 Department of Energy is in the EA process. It
helps us

3 finalize the scope. The scope is all the items
of concern

4 that we are going to look at in the EA. So we
have a

5 general idea right now of what we are going to
look at in

6 the EA, and we are inviting you folks today to
help us

7 finalize that scope. Perhaps we are missing
something, and

8 so we want to hear your concerns. This is an
opportunity

9 to, not so much to ask questions, but to tell
us your

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10 concerns and any comments that you would like
us to address

11 within the document and our analyses.

12 So it's big on, umm, -- This really is
your

13 opportunity to provide some input prior to us
doing our

14 review and our analyses and all the research
that goes into

15 the document itself.

16 So Public Scoping. This is the first
phase of

17 public involvement. We do have another phase.
I'll

18 discuss that a little bit later, but this truly
is the

19 first phase, and we're going to engage the
public, and we

20 are going to ask for your input.

21 Umm, things that we are looking for
from you today

22 is any input that you have or information on
our proposed

23 action, which is the project; any alternatives
you think we

24 should address and include in the document;
umm, any

25 possible like mitigation measures that maybe
should be

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12

1 thought of or implemented in order to help
reduce any
2 potential impacts from our project. And if you
have any
3 data, you know, all that kind of information is
what we are
4 looking for today.

5 So this is what we have come up with.
We have
6 worked with our environmental consultant, who
has been
7 brought in to do the analysis and write the
document for
8 us. They have been working in conjunction with
DOE, and
9 especially OSU, and NNMREC in order to come up
with this.

10 This is kind of our generalized outline for the
11 Environmental Assessment. These are all the
speci fic
12 things that we are looking at potentially, umm,
and
13 analyzing, some obviously in more detail than
others.

14
this list for

So we are looking for you to enhance

15 us. Anything that we are missing, anything
that you think,

16 Okay, it's on here, but, you know, you really
think we

17 should take a closer look at, this is your time
to tell us

18 that.

19 I'll leave that up for a little bit
longer. It

20 really speaks to the bulk of what this project
is really

21 all about, what you are looking at. If you
have any

22 questions, umm, at the end of this, after
Mel eah's

23 discussion, we can revisit this slide and maybe
go into

24 what some of these things mean.

25 So this is about you, really, Public
comments.

13

1 What do you need to know about commenting? We
are here for

2 a reason, which is because we know that the

NEPA hrg

communi ty,

3 especially in Newport, is very proud of their
communi ty,

4 very proud of the environment in which they
live, and we

5 want you to have a say in what we are doing
here. So your

6 comments and concerns are very important to us.

7 We do have a court reporter here today
that will be

8 getting all the comments. And anything that is
said today,

9 either in this meeting or, umm, via comments
later on, will

10 be addressed in some form in the environmental
assessment.

11 We have several ways for you to provide
comments on

12 the scoping tonight: Obviously, at this
meeting, or we

13 have comment cards which are in your packets
right now.

14 There's comment cards. You are welcome to fill
them out

15 and turn them in today, or you can mail them in
to us, or

16 you can e-mail them to us.

17 Currently, we are about a week into our
publ ic

NEPA hrg

18 scoping period. It is 30 days long. We're
about a week

19 into it, so we are going to take comments on
public scoping

20 -- on the scoping, as we discussed, up until
May 27th. At

21 that point, then we are working on the
document. We are

22 actually conducting the analyses, writing it,
doing all our

23 consultations and so forth.

24 The comment cards, as I mentioned, are
in the

25 information folder. We're going to have some
more at the

14

1 sign-in table if need be. And, umm, this right
here, that

2 is my mailing address, so all your comments are
directly

3 coming to me. I will make sure they get to the
right

4 people for the analyses, and I do share them
with OSU and

5 our consultant and numerous people throughout
DOE, but they

NEPA hrg

6 are, you know, they are part of our record, and
like I

7 said, you can send them to me. There is my
address and my

8 e-mail address.

9 A lot of people like to know what's
next. Okay.

10 You provided us some comments; great. Umm,
like I said, we

11 are going to incorporate them as appropriate
into the draft

12 EA. Umm, and a lot of people don't like that
"as

13 appropriate." What I mean by that is truly if
they are

14 applicable to the project. You know, if
something miles

15 from here is going on and it is not truly
applicable to

16 this project, we will definitely take your
comment into

17 consideration, but we are looking for things
very specific

18 to this region and this project.

19 Once all comments, the comment period,
and the

20 draft review -- we do a lot of internal review
-- and once

21 the draft EA is ready for what we call public
review again,

22 we anticipate that to be out in early
September, and we

23 have a current list of stakeholders. Some of
you might

24 have received our postcards already. Those of
you not on

25 it, I believe our sign-up sheet should have an
area where

15

1 you put your address. If not, definitely send
us a

2 comment. Include it in your comment card.

3 So this next comment period that will
happen will

4 be really on the bulk of information. It will
answer many

5 of the questions that you probably have tonight
that we're

6 not going to be able to answer because we are
still in the

7 early phases. But the EA is going to provide
the analysis

8 and give you the information on the project and
activity

NEPA hrg

9 and what the analysis will be on the various
topics.

10 Once we receive all your comments on
the draft EA,

11 those also get incorporated into the final EA.
We

12 anticipate that coming out in early November.
At that

13 point, once the public has provided all their
comments and

14 we've consulted with various local and state
agencies, as

15 well as federal agencies, and complied with the
various

16 acts that NEPA is, umm, required to look at, we
then take

17 the information, and it goes to the powers that
be, so to

18 speak. And in this case it's my boss, the
Golden Field

19 Office's NEPA's compliance officer, and the
Golden Field

20 Office's manager, and they will make the
determination

21 either of a finding of no significant impact,
or they will

22 make the determination to proceed with the
environmental

23 impact statement.

24 background on that. I'll give you a little bit of

25 Uh, a finding of no significant impact, that's typically

16

1 after there has been quite a bit of coordination and

2 mitigation already incorporated into the EA. So there is a

3 lot that comes up to that, umm, you know, finding at that

4 point. It's not just, Okay, looks good; We're going to

5 issue a FONSI, an acronym that we use. But there is some

6 thought and mitigation and applicant committed measures

7 that are incorporated into the document. And if we feel

8 that that has met everyone's needs, the public, the various

9 agencies, and ourselves, then we will issue a FONSI.

10 If for some reason we cannot mitigate our way

11 through any of the potential impacts, then that will

NEPA hrg

12 elevate the project into an environment impact
statement,

13 which is a much higher level, umm, thorough
review of the

14 project and potential impacts. I'm not going
to get into

15 EIS's tonight, but we do have more information
on our

16 website about those.

17 So that's it for kind of the NEPA
overview.

18 My coworker, Tim Ramsey, is going to
come up and

19 speak very briefly about the Water Power
Program. We are

20 very proud of the program, and we want to share
a little

21 bit of this program with you. And after he
speaks, then we

22 will have a really brief process question
section, so I'll

23 let Tim here take it over. Thank you, Tim.

24 TIM RAMSEY: Okay. Thank you, Laura.

25 My name is Tim Ramsey. I work for the
Department

17

NEPA hrg

1 of Energy, the DOE field office. I'm just
going to do a

2 very, very, very quick, 5-minute overview of
the DOE Water

3 Power Program, and then we will talk about the
project

4 specifics.

5 So the Golden Field Office is one of
two field

6 offices that support the Department of Energy
headquarters

7 in Washington D.C. The other field office is
the National

8 Energy Technology Laboratory, and that's in
Pittsburgh,

9 Pennsylvania.

10 The Golden Field Office is the only one
dedicated

11 solely to EERE activities. And you can see in
the slide

12 how it funnels down from the Department of
Energy, down to

13 Secretary Chu, down through EERE. The Wind and
Water Power

14 Program is one of the programs in the Golden
Field Office.

15 So there are ten programs within EERE.
EERE, you

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16 can think of it as kind of two parts. There is
EE, which
17 is Energy Efficiency, and those are the sort of
programs
18 that try to take existing industries and make
them more
19 efficient. And then there is the RE side, the
Renewable
20 Energy side, and that's the typical energies
from renewable
21 resources that you think of, solar power,
biomass, and
22 geothermal. And then, of course, what we are
covering
23 tonight, the Wind and Water Power Program.
24 You can see here just the Organization
and the
25 Vision Statement of the Wind and Water Power
Program. The

18

1 Resources up there, there's three links.

2 Uh, the Department of Energy has a
great website.

3 All the programs are outlined there, and you
can do some

NEPA hrg

4 reading on each of the programs individually,
and some of
5 the technologies that the programs use, and
just get some
6 background information on the programs.

7 The Water Power Program specifically
started
8 because of an act of Congress in 2007 called
the Energy
9 Independent and Security Act. That was
developed in 2007.

10 And basically it's a mandate from Congress to
the
11 Department of Energy to look at Marine and
Hydrokinetic
12 technology. And in that act they define marine
and
13 hydrokinetic as energy from ocean, current,
tides, and
14 ocean thermal energy conversion without
building new dams
15 or diversionary structure. And EISA also
mandated the
16 department to establish national renewable
energy centers
17 where developers can come and test their
technologies.

18 So in 2008 Congress actually gave us
our first

NEPA hrg

19 budget to elicit this project, and we received
10 million
20 dollars. We went out, and our first funding
opportunity
21 covered three topic areas, so we decided to
look at our
22 resource assessment and kind of try to begin
figuring out
23 what the potential is all there, what type of
energy we
24 could get from marine and hydrokinetic, from
water power.
25 Another topic area was to fund
technology.

19

1 Developers can use their technology just a
little bit
2 further across the path of commercialization.
3 And then the third one was to actually
establish
4 the marine centers where they could go and test
their
5 technologies. And Oregon State was one of
those that was
6 selected. We selected the two national marine
centers.

7 The other was the University of Hawaii.

8 Since that time our budget has grown
steadily over

9 the next couple of years. In 2009 we received
40 million

10 dollars, and now for the second round of
funding

11 opportunities for 22 projects. And then we
also received

12 32 million in Recovery Act funds, known as the
Stimulus

13 Funds from the Recovery Act Bill. And all of
those

14 projects were selected. Seven projects were
selected and

15 all that went to conventional hydro type
projects. We were

16 going into checking facilities, dams, and
upgrading

17 facilities. That's what we did in 2009.

18 We are now in 2010, and our budget grew
a little

19 bit more. We have 50 million dollars for this
current

20 fiscal year, and we have our third round of
funding, uh,

21 our funding opportunities, and that's now
currently

22 underway now, and that concludes in June.

NEPA hrg

23 And as far as doing business with the
Department of
24 Energy, we are a funding agency, and almost all
of our
25 finds are competitively selected, and we go
through a

20

1 bidding process through these funding
opportunities. And

2 these are some of the web sites where you can
go if you do

3 want to receive Department of Energy funding.
Or, really,

4 any agency funding.

5 The list here, the first FedConnect
website, that

6 is the main avenue where we tell people to go
to look for

7 Department of Energy funding. All agencies are
there, or

8 you could just kind of see the types of
projects that DOE

9 is soliciting, and kind of where the program is
going by

10 reading some of the information there.

NEPA hrg

11 quick, high-level

Again, that was just a very, very

12 overview of both the NEPA process and the Water
Program.

13 In your folders, if you grabbed one, there is a
business

14 card in there with both Laura's and my e-mail
address.

15 Feel free to e-mail us with any questions.
This

16 presentation will be on the public website,
which is that

17 first website there, and I believe it's also at
the very,

18 very bottom of that card in your folder, so you
don't have

19 to write that down. But if you have any
questions about

20 this presentation, feel free to shoot us an
e-mail.

21 I believe we're going to take a quick
5-minute

22 break if you have any questions for Laura or
myself. If

23 there are more specific project questions,
perhaps about

24 what we're actually funding here in Oregon,
Mel eah is going

25 to talk next, and then we will have a long
period of open

NEPA hrg

21

1 discussion for public comments.

2 JOHN LAVRAKAS: John Lavrakas. When I
think of the

3 environmental impact, the first thought is
affecting the

4 environment, which would be, you know, ocean
life and

5 things like that. And I noticed you had in
there like

6 marine navigation, so then I see that the
effects there

7 include maybe some other activities in the
ocean. So the

8 thought -- the question I have is, would it
also include,

9 you know, during normal operation there would
be effects,

10 but if things go wrong, then there would be
additional

11 effects that may affect agencies, or at least,
umm,

12 emergency service organizations. So would you
consider

13 those applicable in this case as environmental
impacts?

NEPA hrg

14 LAURA MARGASON: It definitely could be
consi dered
15 a potential impact. NEPA is not just the
natural
16 environment. I like to truly think of it, and
I had it up
17 there, as the human and natural environment.
So it is
18 going to look at things. Umm, the fishing
industry, that
19 is a human environment, part of the human
envi ronment. We
20 will look at that, and look at the
soci oeconomi cs,
21 envi ronmental justice sections. But how it
affects the
22 emergency response systems are a potential
topi c for
23 anal ysi s.

24 JOHN LAVRAKAS: Thank you.

25 LAURA MARGASON: Are there any other
cl ari fyi ng

22

1 questi ons?

2 UNIDENTIFIED MAN: If someone di sagree s

NEPA hrg

with your

3 final environmental assessment, is there an
appeal process?

4 LAURA MARGASON: There is. Umm, NEPA
is not, umm,

5 -- I should know this. Just went over it
today. It's

6 truly up to the public to comment and appeal.
Umm, often

7 times, if there is an organization, umm, --

8 UNIDENTIFIED MAN: How do we appeal?

9 LINDA MARGASON: How? That's through
the judicial

10 system. Umm, specifically, I'm sorry, I do not
know. But

11 it is through the judicial system. I would
imagine you

12 hire a lawyer, and they would, umm, go through
that

13 process. But a lot of times, umm, through the
public

14 comment period we are going to address your
concerns, so we

15 are looking for specific concerns, things that
you can

16 specifically point out that, you know, we would
hope prior

17 to the decision that we would be able to
mitigate.

NEPA hrg

6 tell us their concerns. And DOE is truly
looking to not go

7 into litigation, so we are going to address
your concerns,

8 definitely.

9 KAETY HILDENBRAND: We probably have
time for one

10 more clarifying question. (Pause, with no
comment.)

11 Okay.

12 MELEAH ASHFORD: Okay. Thank you for
coming

13 tonight to help us with our scoping process.
My name again

14 is Meleah Ashford, and I'm the Program Manager
for the

15 Northwest National Marine Renewable Energy
Center, which we

16 just call NNMREC.

17 Well, I'm going to tell you about the
proposed

18 project. But first I'm going to start with a
little bit of

19 overview about wave energy in Oregon and about
our center.

20 So, by the way, why Oregon?

21 As Tim mentioned, there are a lot of
different ways

22 to get renewable energy from the ocean, but in
Oregon we

23 have great waves. We have some of the best
waves in the

24 world, as you can see by the map there . The
red areas are

25 kind of the sweet spot, and they are along a,
umm, usually

24

1 a west-facing coast where there is a long ocean
that allows

2 the waves to build up. So, uh, we have got
good waves. We

3 have a high coastal population, and our
population

4 generally gets its power from the other side of
the

5 mountains, so it would be nice to have a local
power

6 source.

7 We have a power infrastructure along
the coast.

8 The mills that were installed over the century
had power

9 coming to the coast. Power doesn't care which
direction it

and 10 is going. So we do have a good infrastructure
11 electrical grid. And we have good research
capabilities 12 and capacities with Oregon State University and
the 13 Hatfield Marine Science Center here. And,
also, the 14 resource of waves as you see in the, umm, --
Let's see. 15 This is very slow. As you can see from
the graph 16 there, this is over time; wave, power over
time. We get 17 the biggest waves in the summer -- I mean in
the winter, 18 which is when you need to use that power.
19 So getting energy from the waves,
there's a lot of 20 different ways. There's over a hundred
different devices 21 out there right now, and we are in the process
of -- The 22 industry is in the process of down selecting to
what is 23 really going to be the power generation process
now for 24 wave energy.

25 You have shore-based facilities like

this, umm,

25

1 WaveGen here that sits on the shore, and waves
come in and
2 blow air through a turbine out through the top.

3 Pelamis is a very famous one that's
like a snake.

4 It undulates and, umm, fluid moves between
those sections

5 and runs the turbine.

6 This is the Finavera Buoy, which you
may be

7 familiar with. It was deployed out there. It
plunges up

8 and down and runs a turbine in a vertical
direction.

9 The Oyster here on the bottom is a --
is a near

10 shore device. It flaps back and forth. In
that flapping

11 action it pushes the water onto the -- through
a piping

12 system on the shore and runs a turbine.

13 The other two here are what we call
point

14 absorbers, and they collect energy from the
waves in a deep

15 water situation. Not really deep, but like 150
to 200 feet

16 deep. The OBT device, you probably heard
something about

17 that, about proposing some in southern Oregon.
And that's,

18 again, like a plunger device.

19 And this is Columbia Power Technology
device down

20 here on the bottom, and it gets energy use
through several

21 different types of motions; the motion of flaps
coming

22 down, and the sideways motion.

23 They are all innovative, but they are
all very much

24 in developmental stages, which is why we had so
much

25 interest on the coast.

26

1 So the Northwest National Marine
Renewable Energy

2 Center, we are a partnership between Oregon
State

NEPA hrg

3 University and the University of Washington.
They focus on
4 tidal issues. They have large tidal resources
coming in
5 and out of the Puget Sound.
6 We are funded partially by Department
of Energy,
7 but we have a lot of local funds. The State of
Oregon
8 provided us money for the actual
infrastructure, and we
9 have various other funding agencies that are
shown there on
10 the side. We also partner with the National
Renewable
11 Energies Lab, who is helping us with some of
the technical
12 testing issues.
13 The idea of NNMREC is to develop a
range of
14 capabilities to support wave and tide and
energy
15 development, and this center is structured to
facilitate
16 the development through the testing process and
the
17 modeling process to form regulatory and policy
decision

18 makers to close information gaps.

19 So we are really a virtual center. We
don't have

20 a, you know, a location itself. Umm, and we
are divided

21 into three different areas. The technology
area: In

22 addition to technology, we have a testing and

23 demonstration, which is what this project is
about. We

24 look at wave forecasting, survivability,
reliability of

25 devices, anti-fouling and corrosion issues, and

27

1 device/array optimization issues. Those are
all modeling

2 issues, and they are all part of the process.

3 In the environmental area we are
studying sediment

4 transport, electromagnetic fields, Benthic
ecosystems

5 issues, acoustics, umm, and then we have some
others on

6 there. Marine mammals is another area that we
are

7 studying.

8 And then in the human dimension we are
looking at

9 the impact on the inside of things, fisheries
and crabbing,

10 outreach and engaging, and we're working on
existing users

11 and the local economy.

12 So the proposed action is the design,
construction,

13 and operation of a mobile, full-scale, open
ocean wave

14 energy testing facility. And the, uh, the
project consists

15 of two of these testing devices, and I'll show
you what

16 they look like. And those two devices will be
connected to

17 two wave energy devices. So our two test
berths, and then

18 two devices, so there's four things in the
water.

19 And we are also looking at an
underwater substation

20 pod, which is a device that connects the cables
from the

21 energy devices. And then it's eventually
designed to take

22 that back to shore, so if there was an array of

NEPA hrg

these

23 device s, the array can come together to one
substati on

24 pod, and then one cable could go to shore.

25 Umm, in our case we are not grid
connected. The

28

1 idea is it is a mobile test facility. And the
grid

2 connection results in a lot of issues that, not
only the

3 communi ty, but funding issues, we are just not
ready to

4 tackle yet. So we are looking at this in a
mobile sense.

5 And, umm, the site that we are
considering is about

6 two nautical miles off of Newport.

7 So this is a drawing, a conceptual
drawing, of what

8 the test facility looks like, the test berth
itself. And

9 we are working with a design team of SAIC, Hyak

10 Electroworks. Glosten and Associates are
worki ng on a

11 mooring system. Peregrine Power is working on
the power

12 issue. And then R.E.C.S. is a company that's
putting in

13 the hull.

14 And it's a composite hull in a boat
shape. It is

15 formed after the NOMAD style buoy that NOAA
uses. Umm, it

16 has internal spaces that are all subdivided so
they are all

17 watertight, and it's designed to be a plug and
play, so a

18 variety of different devices could use our
testing

19 facilities, and they will literally plug their
device into

20 the Mobile Ocean Test Berth. And we would be
measuring the

21 current, the voltage, and the, uh, -- of the
device itself.

22 There's other parts of the device that
are bilge

23 pumps, the shore -- The data would be
transmitted back to

24 shore. So we collect data about how the device
is creating

25 energy, and that data would go back to shore
for analysis.

29

1 And there are auxiliary sensors that are
looking at the

2 motion of the test -- I'm sorry -- the motion
of the device

3 under test, and checking the strains on that
device and, as

4 I said, the power off of that device.

5 So this is -- This is a conceptual
drawing of the

6 typical type wave energy conversion device that
we are

7 focusing our efforts on being able to test at
this point in

8 time. So I showed you a bunch of slides of
lots of

9 different types of wave energy conversion
devices, but,

10 umm, we think that it will be these point
absorbers that,

11 umm, that will use our services the most.

12 And this is a picture of a three-point
mooring

13 system, and this is how the point absorbers
will typically

14 be moored. So you've got the device in the

middle, you've

15 got the power cable coming out the bottom, and
you've got

16 the three, uh, three mooring systems, and the
anchoring

17 system would vary depending on the device. We
look at

18 probably a large dead weight anchor as the
anchor that we

19 would use.

20 Now it gets a little more hairy. This
is a picture

21 depicting what it would look like for our
testing facility

22 connected to the wave energy device.

23 So, umm, we've got the wave energy
device over here

24 with the three-point mooring. That's the
photograph I just

25 showed you. And then it is connected to the
test berth by

30

1 an underwater cable. The cable is probably
going to be

2 about that big. A lot of data and a lot of
information is

NEPA hrg

3 going to be pushed back and forth on that
cable. And, uh,
4 it -- Conceptually right now it looks like that
the test
5 berth itself will also be a three-point
mooring. So you've
6 got quite a few more cables out in the ocean.
7 Okay. This is a description of the
underwater
8 sub-sea pod. Some people call it a central
junction box.
9 But it connects multiple wave energy devices
and, uh, will
10 eventually be used for grid connection,
although in our
11 case we would not use it in a grid connection
because we
12 will not be grid connected. And it is an area
that's
13 targeted research for Oregon State, and it's
being covered
14 under NEPA because it's being funded by the
Federal
15 Government.
16 So this is a picture of the site that
we are
17 considering for the Mobile Ocean Test Berth,
and, umm,

NEPA hrg

18 we've gone through a process where Oregon State
has done

19 two different tests of devices that were
developed at

20 Oregon State.

21 This test would be for commercial
developers, but

22 we do have some experience with testing of
these devices

23 that are -- that are not to the size that you
are looking

24 at with this one. We are looking at up to a
megawatt, to

25 have a capacity of up to a megawatt of energy
from the

31

1 device. And the tests that we have done in the
past were

2 about 30 to 40 kilowatts. But, umm, -- So we
know these

3 devices need about 140 feet of water, out to
possibly 200

4 feet of water. That's the area that we are
targeting.

5 So we knew that there were some
conditions that we

6 needed. We needed the 150 feet of -- 140 to
150 feet of
7 depth, and we needed a soft, sandy bottom. And
we wanted
8 to make sure that it was close to a port so
that we weren't
9 spending a lot of boat time and lose a lot of
operations in
10 going back and forth, so we wanted to be close
to a port.
11 We gave those considerations over to
the FINE
12 Committee, which is Fishermen Involved with
Natural Energy,
13 and we had discussions with them about where a
site would
14 be the least impact with them and from the
fisheries
15 standpoint, but meet the Oregon State criteria
for that
16 test berth.
17 So our final site will be one nautical
mile by one
18 nautical mile. But we have to date not honed
in on exactly
19 what one nautical mile, where it would be
within this study
20 area. So we have a big study area that's six
square miles,

NEPA hrg

21 but the final site will be one square mile
within that six

22 square miles. And we have some additional
community

23 processes to go through to finalize the
location of that

24 one mile site.

25 Just some things to note. The red line
on the map

32

1 is the Territorial Sea Line, and the
territorial sea is

2 what is under the jurisdiction of the State of
Oregon, as

3 opposed to what is beyond the Territorial Sea
Line and is

4 under the jurisdiction of the Mineral
Management Service.

5 The regulations are different under the Mineral
Management

6 Service. That's not to say it is bad or good.
It is

7 different. We chose to be within the Oregon
Territorial

8 Sea. Primarily, that's the depth range that we
are

NEPA hrg

9 targeting.

10 Okay. So other agencies and approvals
that will be

11 necessary for this project. So we are going
through the

12 NEPA process right now because the federal
action is

13 funding of this design, construction, and
deployment of the

14 Mobile Ocean Test Berth. But prior to the
deployment

15 there's a lot of other agencies involved.
Primarily

16 through the Corps of Engineers. So prior to
deployment of

17 this, we will need a permit from the Corps of
Engineers,

18 and we will do that process separately.

19 Uh, we will be going through
consultations with

20 NOAA; the National and Marine Fisheries
Service; the

21 Department of State Lands; Department of Land
Conservation

22 and Development to look at consistency with the
territorial

23 sea plans; the Department of Environmental
Quality; the

24 Coast Guard; Parks and Rec.

NEPA hrg

25
because we are

We will not be going through FERC

33

Regulatory

1 not grid connected. That's the Federal Energy

we don't go

2 Commission. We are not grid connected, and so

Mineral

3 through FERC. And we don't go through the

territorial

4 Management Service because we are within the

5 sea.

as we've gone

6 So I just want to bring this up. Uh,

have input

7 through this process, it is important for us to

good input

8 from the community. To date we have had really

understand some

9 from the FINE community, and they helped us

working with the

10 of the issues that we will be facing when

impact that we

11 ocean, and have made us acutely aware of the

12 will have on the fishing industry.

13 But, uh, we also realize there are
other people in
14 the community that we would like to have
engaged in the
15 process. So as the test berth goes forward,
not only to
16 the design and the construction of the test
berth, but on
17 to the operation of the test berth, we felt it
would be
18 important to have a group of people from the
community that
19 would be involved in helping us make sure we
are
20 considering things, umm, that we -- that we may
miss along
21 the way, including discussions about the study,
the study
22 area and the siting area that we have.

23 So we have put together a Test Berth
Committee, and
24 in your packet there is an application form for
that Test
25 Berth Committee. It describes what we expect
from people

NEPA hrg

1 who would like to be involved in this
committee. And we

2 anticipate the responsibility would be a
commitment up to

3 about two years, attend meetings, uh, around
four times a

4 year. Of course, that would be different
depending on what

5 was going on.

6 And the make-up of the committee, this
is just a

7 general description of it. The ones in the
packet is just

8 a little more accurate. This is a Mac, and I
wasn't able

9 to make the last minute changes to this. But
basically the

10 local communities, recreational fishermen,
commercial

11 fishing, ports, the wave energy device
developers, the

12 recreationalist, and conservationist, the
marine

13 researchers, the utility groups, economic
development.

14 And, uh, the one missing off here is just the
general

15 public.

16 So I wanted to get in that little plug.

NEPA hrg

If you

17 want to be involved in the process, we would
love to have

18 you involved through that Test Berth Committee.

19 I believe that's the last of my slides,
and I will

20 turn it over to Kaety, who will talk about the
public

21 comments.

22 KAETY HILDENBRAND: Great. So next we
have quite a

23 bit of time, actually, to receive public
comments. We do

24 have a microphone that's going to be going
around.

25 Umm, we're going to limit it to three
minutes per

35

1 speaker, and if time allows, you can speak
again at the

2 end. We do have a court reporter present here,
so make

3 sure to state your name in the beginning of
comments. And

4 if you have a difficult spelling of your name,
please spell

NEPA hrg

5 it out for us. And let us know if you are
speaking as

6 yourself or for a group. Again, the comment
cards are in

7 your packet as well.

8 To start it off, we're going to go down
the list of

9 when people said they want to comment when they
signed in

10 tonight. The first one is Chuck Pavlik. The
microphone is

11 coming.

12 JOHN HORST: I'm John Horst. Just go
ahead and say

13 your name again so it's on the record.

14 CHUCK PAVLIK: My name is Chuck Pavlik,

15 P-A-V-L-I-K.

16 On your map here, your six-mile area,
how long do

17 you anticipate that that would be in effect,
the six miles,

18 before you go to your one square mile?

19 KAETY HILDENBRAND: So the purpose
tonight is to

20 look at and sort of scope out the entire
six-mile site, and

21 then through some of the things that are

addressed through

22 the process, as well as some other statements
and comments

23 that are received through the various
processes, umm, the

24 actual one-mile site will be chosen from all of
those

25 comments. So in the near future, before the
first buoy

36

1 goes into the water, we will have this one-mile
site

2 selected. It's depending on various devices,
and that

3 one-mile site could change, depending on the
needs. I

4 guess that's one of the good things about
staying mobile

5 with the test berth; we can move it around.

6 Does that answer your question?

7 CHUCK PAVLIK: Yeah. I live down the
road in

8 Waldport. I'm a sports fisherman, and I keep a
boat in

9 Newport six months out of the year, and I fish
a lot right

NEPA hrg

10 in your blue area that you have highlighted.
And, uh, it's

11 a very popular halibut fishing area, salmon
later in the

12 year, as well as crabbing; not commercial, but
sport. And,

13 uh, basically, when I look at that, uh, I see a
six-mile

14 area where no trespassing signs are posted.
Tell me that

15 isn't so.

16 KAETY HILDENBRAND: The six miles will
not be off

17 limits. There will be a one-mile area that
will be off

18 limits, not six miles.

19 CHUCK PAVLIK: Okay. Did you -- When
you were

20 choosing your site, did you consider any areas
further from

21 Newport? Did you -- For instance, did you look
, uh, at

22 the area down by Waldport? When you get that
far south,

23 you've eliminated 98 percent of the sports
fishing during

24 the summer season out of Newport. There's
literally

like a 25 hundreds of boats that use this area, you know,

37

1 bunch of bees around the hive. They never get
far from the

2 jetties and the mouth in that area where you
are at, a

3 little bit south and a little further out.
They stay

4 pretty close to home. And, uh, just looking at
your

5 selection, uh, did you not look further south
or further

6 north to get further away from such a high use
area?

7 KAETY HILDENBRAND: Umm, I'm kind of
speaking for

8 the people from OSU. In the criteria that was
set down,

9 for the people at OSU Waldport was too far for
them. They

10 wanted to be closer to, umm, the jetty entrance
to be able

11 to service that project.

12 CHUCK PAVLIK: Well, I can appreciate
their desire

NEPA hrg

13 to have a convenient area, but Waldport is
about 15 miles

14 south, and, uh, they do have several million
dollars worth

15 of boats, OSU does, that are research vessels
that could be

16 used to get south or north to an area that
didn't have any

17 conflicts with sports fishermen out of Newport.
Newport is

18 the busiest area on the Oregon Coast as far as
sports

19 fishing goes. There are lots of boats, lots of
fishing, a

20 lot of people that use it for recreation all
summer long.

21 And, uh, for you to take away part of that area
when there

22 really isn't a need to, if you could just
relocate a little

23 ways, I think you have other options available.

24 JOHN HORST: Thank you very much.

25 KAETY HILDENBRAND: Uh, the next one
that had a

38

1 question mark next to the name is a John

NEPA hrg

Sherman. Is John

2 Sherman still here?

3 UNIDENTIFIED VOICE: He stepped out.

4 KAETY HILDENBRAND: Okay. Another name
with a

5 question mark was Mike Donnellan.

6 MIKE DONNELLAN: I'm Mike Donnellan,
and --

7 JOHN HORST: Use this.

8 MIKE DONNELLAN: My name is Mike
Donnellan. And I

9 have a question just about the six-mile site.
I understand

10 it was developed with community input. So is
that set in

11 stone, or is that still, uh, potentially
movable? In

12 particular, I'll tell you why: Because Yaquina
Head is an

13 extremely important area for sea birds, in
particular

14 common murrers. About 80 or 90 thousand birds
nest there

15 and use that area, which is north, and, uh,
British

16 Columbia and Washington. And it's in a great
whale

17 migration corridor, so I was just wondering, is

that set in

18 stone?

19 LAURA MARGASON: Uh, Kaety did the last
one, and

20 I'll get her out of the hot seat this time. So
the answer

21 is that it is not cast in stone. We did go
through a

22 process of what areas and what parameters
Oregon State

23 developed were critical for the success of the
Mobile Test

24 Berth, and then we did work with the FINE group
to talk

25 about, you know, where from a fishing
standpoint that area

39

1 would be best placed. And, uh, this six square
miles that

2 we came up with, in the end there would be one
square mile

3 that we would end up with. So, umm, it is at
this point

4 the most desirable location for us, but it is
not cast in

5 stone.

NEPA hrg

6 MIKE DONNELLAN: Thank you.

7 KAETY HILDENBRAND: Is there anybody
else who
8 wishes to comment that did not mark that?

9 JOHN HORST: Let me make my way to the
back.

10 KAETY HILDENBRAND: Sure.

11 STEPHEN WEBSTER: Thank you very much.

12 JOHN HORST: What's your name?

13 STEPHEN WEBSTER: Umm, Stephen Webster.
I've got

14 two questions. Umm, if the site is finally
permitted, is

15 there any sunset to this permit? Is this in
perpetuity?

16 What's -- What's the time frame that the
permit, uh, its

17 life span?

18 LAURA MARGASON: You know, I have to
say that I

19 don't know how long the Corps of Engineers
permit lasts.

20 But our intent is that, umm, that we are
looking at a

21 ten-year horizon for the operation of the test
berth. That

22 is the best that we can foresee at this point

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in time.

23 STEPHEN WEBSTER: My second question
is, uh, what

24 is your budget for ten years? What is your
annual budget?

25 If you could give some, uh, rough sketch of
what that

40

1 budget entails.

2 LAURA MARGASON: Okay. Uh, the budget
for the

3 Mobile Ocean Test Berth is about 3 million
dollars for the

4 design and construction. And that's what we
are looking

5 for in the standpoint of funding.

6 Umm, the operation and maintenance and
the

7 management of the testing is to be determined.
You know,

8 we have some general ideas of, you know, how
much

9 management it would take and how much operation
costs will

10 be, but until that gets finally designed, we
don't have

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11 that information at this point.

12 STEPHEN WEBSTER: I don't have any
other questions.

13 The only other comment I would like to make is
I would be

14 like Mr. Pavlik, noting that you are contending
for prime

15 real estate and that you couldn't choose an
area that's

16 probably more -- has any denser use in our
region. Thank

17 you.

18 JOHN HORST: Thank you. Appreciate
your input.

19 Okay. Right here. I'd have you state
your name.

20 JOHN LAVRAKAS: John Lavrakas,
L-A-V-R-A-K-A-S.

21 I have a company, Advanced Research
Corporation.

22 We've recently figured an infrastructure
investment for

23 wave energy in Oregon. In it we learned that
one of the

24 issues that came out was the availability of
emergency

25 services for conditions when the, umm, things
go wrong.

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41

1 And in this case I would ask that
attention be paid
2 to those services as part of the environmental
impact. It
3 could be where someone works the vessel. When
the ship
4 gets in trouble, they get tangled up in the
lines, or the
5 vessel breaks free. In any of those things
there is a tax
6 on the emergency services. And they need to be
aware of
7 what kind of situations could occur so they are
prepared;
8 they have some kind of contingency planning
that will work
9 with you all working with them. That's my
recommendation.

10 KAETY HILDENBRAND: Okay. I think I
saw one more

11 hand in the back.

12 JOHN HORST: Who had another comment?
Okay.

13 DANIELLE ASSON: Hi, my name is
Danielle Asson,

14 A-S-S-O-N, and I guess I had a question about
-- You said

15 it was going to be anchored by the three --
that little

16 tripod anchor setup. And I was wondering if
you were

17 considering any other options for anchoring,
because I know

18 how much -- how much environment that those
anchors

19 actually impact, uh, like how big the concrete
blocks have

20 to be in order to keep that stable. And it
doesn't seem

21 very mobile to me as well.

22 I'm just wondering if you are taking
that into

23 consideration or if there are any other options
on the

24 table for anchoring. You know, I mean it is --
you have to

25 figure out how best to do. But I do know that
those

42

1 anchors seem to have a pretty large impact on
the

would be 2 environment, and, also, I don't see how they

you guys are 3 easily moved. And so I was just wondering if

other options 4 considering anything else, if there are any

with maybe a 5 on the table, if there is any way to do this

6 lesser environmental impact. That's all.

7 LAURA MARGASON: Okay.

8 JOHN HORST: Thank you very much.

the early, 9 LAURA MARGASON: We are, you know, in

10 early stages of the concept of the Mobile Ocean
Test Berth.

11 And depending on the final weight, that will be
dictated by

12 the components that are inside the mobile test
berth, which

13 are dictated by what the wave energy devices
need us to

14 provide them, uh, which will determine the
types of mooring

15 that we have to do.

16 So we are considering Danforth anchors,
which are,

17 you know, kind of a traditional type anchor,
and the dead

18 weight anchors. And I think that the hope
would be we

19 could use Danforth anchors, but it will depend
on the final

20 weight and configuration of the test berth,
whether those

21 anchors will be adequate or not.

22 Also, with the mobile test berth
itself, that

23 anchoring system will stay for the duration of
the test

24 berth site, so they won't be moved. So there
will be

25 marker buoys that the test berth, when it does
go into port

43

1 for maintenance, whatever, uh, they will stay
there, and

2 then it will come back out and hook up to those
moorings.

3 Now, for the wave energy converter
itself, those

4 moorings will be brought in, and my
understanding is that

5 they bring in their full-size moorings. They
are not able

6 to -- they want to test a full-scale ocean
device. So they

7 put in their full-scale mooring and anchoring
system, and

8 at the end of the test it is our plan to have
them take

9 those out. But the mooring system for the
Mobile Ocean

10 Test Berth will stay in.

11 DANIELLE HESTON: If you're planning on
-- Danielle

12 Heston, H-E-S-T-O-N.

13 If you're planning on testing multiple
devices, is

14 there any way that you could leave the mooring
and just

15 hook the mobile devices up to them?

16 LAURA MARGASON: Yeah, that's a --
That's a

17 consideration, and it would be up to the wave
energy device

18 developers. The devices, by the time they get
to the point

19 where they are testing on a full scale, are
very expensive.

20 And there's a lot of liability associated with
the moorings

21 and anchoring systems that they would not want
to pass from

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22 one developer to another.

23 So based on experience in Europe, each
device

24 developer's anchoring and mooring system is a
little bit

25 different than the last one. So the chances
that one

44

1 system would work for another are pretty slim.
So our

2 intent is that they would remove that at the
end of their

3 test -- remove their system at the end of the
test.

4 DANIELLE HESTON: I got one more
question.

5 LAURA MARGASON: Yeah.

6 DANIELLE HESTON: Uh, so when this
finally comes, I

7 guess, into being, uh, I don't know if you will
be able to

8 answer this. Umm, are you planning on testing
multiple,

9 like varying, all different types of wave
energy things and

NEPA hrg

10 with the intention of putting them along the
Oregon Coast,

11 or just to see, I guess, how they work?

12 And if you are going to -- if they are
going to be

13 put on the coast, will we have a say in which
device we

14 ultimately use? Because I know a little bit
about the

15 devices, and I know which one I prefer. So
will that --

16 will this process be continued when it comes to
actually

17 starting to use that wave energy so we can base
our

18 opinions on like which devices we think should
be there

19 based on how much energy they give, and also
with the

20 environmental impact?

21 LAURA MARGASON: Umm, that's a good --
A pretty

22 quick answer to that is, umm, only if it is
federally

23 funded. Because the NEPA process is the
public, umm,

24 involving the public. If it were an action
that, uh,

25 either the Department of Energy or Army Corps

of Engineers,

45

1 if it is a federally funded project, then yes,
there will
2 be a public process to allow people to comment
on.

3 The intent of this project is mainly to
provide

4 testing. Umm, a little background: A lot of
times you

5 need to verify a concept and test it in, umm,
you know, in

6 an ocean environment in order to prove the
capability of

7 the technology, and that is what this is going
to be.

8 That's the intent of this test unit.

9 Where it goes from there, it's really
up to the

10 developer at that point and what they foresee
as an

11 applicable area for their deployment of their
technology.

12 So the public will be able to come into play if
it is

13 government funded at this point, you know.

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14 But the permitting process does involve
other
15 federal agencies, so even if DOE doesn't, there
is FERC and
16 Army Corps and MMS, and they are all subject to
the NEPA,
17 and they have their own public review process.
So it's
18 always good to keep your ear open for these
type of
19 deployments.

20 DANIELLE HESTON: Thank you.

21 KAETY HILDENBRAND: Any other comments?

22 JOHN HORST: And, again, for this
entire process,

23 we are very grateful that you are here, and
your concern to

24 see some interest.

25 WIL BLACK: My name is Wil Black, and I
also work

46

1 for Advanced Research Corporation. I have kind
of a
2 two-part question. They are related questions.

NEPA hrg

3 First of all, who -- who as far as wave
devel opers

4 have expressed an interest in putting their
devices to be

5 tested with the Mobile Ocean Test Buoy? And
the second

6 part of that is, umm, why would they want to do
that when

7 already they are putting devices by the end of
the summer

8 down in Reedsport doing this? And they are
putting devices

9 in the water around the world. Why do they
need to use

10 these?

11 MELEAH ASHFORD: Okay. I will answer
those. We

12 have a couple of devel opers, and I'm not going
to name

13 names, but we do have a couple of devel opers,
and we plan

14 on the first version of the test berth really
to be focused

15 on point absorbers, so those are ones that
float vertically

16 in the water, up and down, basically. And,
umm, so we have

17 talked with several people who are interested.
We've got

18 some scheduling things to work out.

19 And, umm, the process that you are
talking about in

20 the south, in Reedsport, where OPT is planning
to put their

21 one buoy in there, they are just ahead of us.
They have

22 indicated that if the test berth was ready,
they would use

23 it, but they are ahead of us in the process.

24 So if they can go ahead without the
need for the

25 test berth, I think is what your second
question is, why

47

1 would you build a test berth? Umm, the OPT has
tested

2 their device, and is testing their device now
at the test

3 facility in Europe. The premiere test facility
in the

4 world is called the European Marine Energy
Center. It's on

5 the north shore of Scotland, the island of
Orkney, and,

6 umm, they have four test facilities there that

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are grid

7 connected, and they are fairly well booked out.
So there

8 is a lot of interest in testing these
facilities. And OPT

9 has tested their device there. You can -- You
can develop

10 your device without a test berth, but you don't
get that

11 third party, reliable information that we
believe and DOE

12 believes that the world needs.

13 You need a standardized process, you
need

14 standardized testing, and it needs to be at
some point a

15 third party so that it is well accepted.

16 WIL BLACK: So there has been pretty
good industry

17 interest in that?

18 MELEAH ASHFORD: Yes, we are working
with

19 developers at this point.

20 KAETY HILDENBRAND: Final comments?

21 JOHN HORST: Just restate your name.

22 MIKE DONNELLAN: My name is Mike
Donnellan. I just

23 have one more question. It's my understanding
that there's

24 another federal funding wave energy project
just offshore

25 of this. Uh, it was a successful grant by OSU.
I think it

48

1 was Minerals Management Service or something.
So I'm just

2 kind of wondering about the bigger context
here.

3 KAETY HILDENBRAND: Yeah. I think the
project you

4 are referring to is actually not. It's related
to sort of

5 energy and the ocean, but it is not a wave
energy project.

6 It's actually a team of social scientists at
Oregon State

7 University looking at outer continental shelf
uses and sort

8 of how to mitigate or reduce conflict with
energy producing

9 devices that are put in the ocean. It is not
specific to

10 Oregon or this site. It's actually a project
being done

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11 both on the West Coast and on the East Coast.
This is not

12 a specific, you know, power project. It's
looking at just

13 how to reduce conflict more in different
regions in the

14 ocean. That's the only one that I know of that
you might

15 be thinking of.

16 MIKE DONNELLAN: Yeah, that sounds like
it.

17 KAETY HILDENBRAND: Okay.

18 DICK BRIM: I'm Dick Brim. I
apologize. I got

19 here late. So if my question has been answered
earlier,

20 please let me know, and I'll get the
(inaudible).

21 I'm curious. You have an onsite study
area of six

22 square miles with a final site of the one
square mile. Can

23 we assume that after you've made that final
site selection

24 that the other five square miles will be
released and won't

25 be used?

1 UNIDENTIFIED SPEAKER: That is correct.
We made a
2 commitment to the community, and the FINE group
in Lincoln
3 County was involved in that, that our site at
this point
4 would be one nautical mile by one nautical
mile. And we
5 were not able to come to a conclusion on
exactly the one
6 mile by one mile square yet, but there was
general
7 agreement about the six mile square area that
allowed us to
8 start the NEPA process. And before we get
permits for
9 deployment of the device, we will have one mile
by one
10 mile. And those are nautical miles.

11 DIFFERENT UNIDENTIFIED SPEAKER: I just
want to
12 clarify, those six miles are not closed now.
It is not
13 like they need to be released after we decide.
We are just
14 looking at it, so it's not closed. None of it

NEPA hrg

is closed at

15 this point.

16 DICK BRIM: Thank you.

17 KAETY HILDENBRAND: Anyone else?

18 JOHN HORST: I can handle this side of
the room. I

19 think we are okay.

20 LAURA MARGASON: Okay. I think it is
official. I

21 just want to thank everyone for the comments.
We heard

22 some really, very important things, umm, and
received some

23 great input. And rest assured, we're going to
take all of

24 your concerns and comments into consideration
in developing

25 the EA. Those of you who are on our mailing
list, who have

50

1 received cards -- Those of you who have not,
please make

2 sure you send us some type of comment, or at
least your

3 name and address, to either -- preferably to

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myself. 1

4 will make sure that you get on the distribution
list for

5 notification when the draft EA comes out. And
other than

6 that, that will be our next step. So thank you
for

7 attending tonight, and we appreciate all your
comments.

8 SARAH HENKEL: I was just wondering, if
people who

9 spoke tonight, if they can still make any
further comments?

10 LAURA MARGASON: Yes. I mentioned that
before.

11 You have until May 27th. Per our regulations,
we have a

12 30-day window for scoping comments. It is the
same with

13 the draft environmental assessment comes out.
It's going

14 to be a 30-day window for anyone to provide
their comments.

15 And so please have e-mail or mail your
comments to

16 me by the 27th. As long as they are
postmarked, you know,

17 we have a couple days. We are not very strict
about dates,

NEPA hrg

At that 18 but please try to have them in by that point.
we need 19 point we are already writing the EA draft, and
20 those scoping comments by then.

21 Thank you, everyone.

22 (End of meeting)

23 *****

24

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1 COURT REPORTER'S CERTIFICATE

2

3 I, Lee Blackwood, Certified Court
Reporter for the

4 State of Oregon, do hereby certify that the
statements set

5 forth in this matter are a true and correct
transcript of

6 said statements.

7 I further certify that the statements
were made

8 before me at the time and place set forth in
the caption

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9 hereof; that at said time and place I reported
in Stenotype
10 all proceedings had in the foregoing matter;
that
11 thereafter my notes were transcribed by me; and
that the
12 foregoing 50 pages constitute a true and
accurate
13 transcript of my original stenographic notes.

14 In witness whereof, I have hereunto
affixed my
15 signature this 21st day of June, 2010.

16
17
18 Lee Blackwood
19 Certified Court
Reporter
20 Certificate No.
90-0130

21
22
23
24
25

Scoping Meeting Sign-In List

U. S. Department of Energy
 NEPA Scoping Meeting for the Northwest National Marine Renewable Energy Center (NNMREC)
 May 5th, 2010

NAME	ADDRESS/ZIP CODE	ORGANIZATION	TELEPHONE	EMAIL ADDRESS	Do you wish to comment tonight?
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John Kavvakes					
Bob Hardy		SELF	921-0294		No
Danielle Asson		SELF			
Danielle Heston	97333 PO Box 434 97380	SELF			No
Theresa Lusner	PO Box 942 Collinsville, OR 97331	AMP	541-444-2334 541 602 4166	twinsner@hughes.net	No
MIKE MORROW		M3 WAVE		MIKE@M3WAVE.COM	No
Maryann Bozza	HMSC 370 SW 29th St #D Newport, OR 97365			maryann.bozza@oregonarc.com	No
Richard Brina	157 Ave 17th St Aveport OR 97321	ARC	541-867-7051	rockrntn_5@latmail.com	No
Jed Smith			541 265 8636	j.smith@oregonarc.com	NO
Wil Black	88 Pioneer Trail Toledo, OR	Advanced Research Corp	541-270-9512	wil.black@oregonarc.com	NO

U. S. Department of Energy
 NEPA Scoping Meeting for the Northwest National Marine Renewable Energy Center (NNMREC)
 May 5th, 2010

NAME	ADDRESS/ZIP CODE	ORGANIZATION	TELEPHONE	EMAIL ADDRESS	Do you wish to comment tonight?
TERRY Lettnermiller	PO Box 550, Sumner, WA		509-867-4603	lett@pent.org	No
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STEPHEN WEBSTER	113 SE BAY BRIDGE RD. N.W.	OSU	503-755-7275	siletzbu@clawson.com	yes
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John Oberman	P.O. Box 1676, Newport, OR 97136		—	—	?
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